

Anti-AKT1 Mouse Monoclonal Antibody [Clone ID: OTI4D6]

Catalog Number: M00024

Overview

Product Name	Anti-AKT1 Mouse Monoclonal Antibody [Clone ID: OTI4D6]
Reactive Species	Dog, Human, Monkey, Mouse, Rat
Description	Boster Bio AKT1 mouse monoclonal antibody, clone OTI4D6 (formerly 4D6). Catalog# M00024. Tested in FC, IF, IHC, WB. This antibody reacts with Human, Monkey, Mouse, Rat, Dog.
Conjugate	Unconjugated
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal OTI4D6
Formulation	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Storage Instructions	Store at -20°C as received.
Host	Mouse
Uniprot ID	P31749

Technical Details

Immunogen	Full length human recombinant protein of human AKT1 (NP_005154) produced in HEK293T cell.
Isotype	IgG1
Concentration	1 mg/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Anti-AKT1 Mouse Monoclonal Antibody [Clone ID: OTI4D6] (M00024) Images

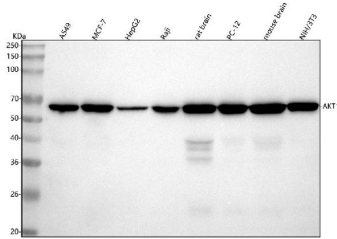
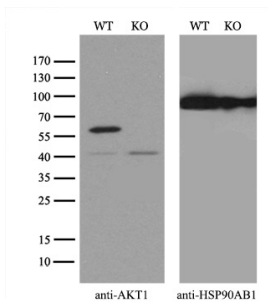


Figure 1. Western blot analysis of AKT1 using anti-AKT1 antibody (M00024).

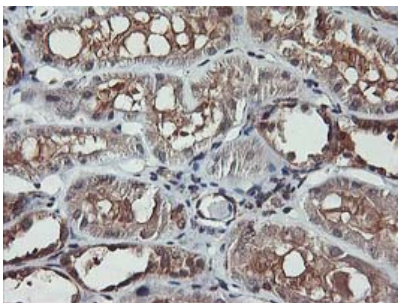
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human A549 whole cell lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human Raji whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat PC-12 whole cell lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-AKT1 antigen affinity purified monoclonal antibody (Catalog # M00024) at 1:51000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for AKT1 at approximately 56 kDa. The expected band size for AKT1 is at 56 kDa.

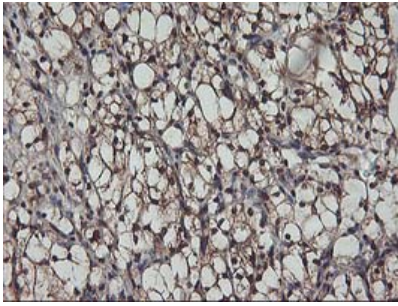


Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT) and AKT1-Knockout HeLa cells (KO) were separated by SDS-PAGE and immunoblotted with anti-AKT1 monoclonal antibody M00024

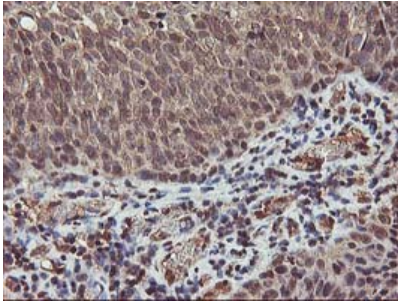


Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer

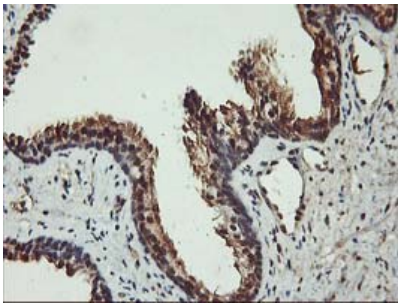
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by



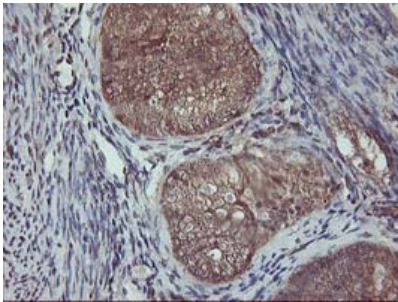
10mM citric buffer



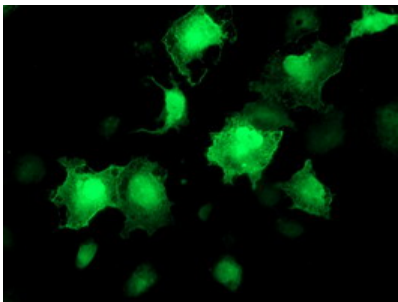
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer)



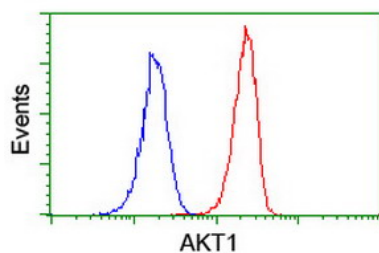
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-AKT1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer)



Anti-AKT1 mouse monoclonal antibody (M00024) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY AKT1.



8 Publications Citing This Product

1. PubMed ID: 27456341, Hyperthermia induced HIF-1a expression of lung cancer through AKT and ERK signaling pathways
2. PubMed ID: 25695729, Wan J, Che Y, Kang N, Wu W. Mol Med Rep. 2015 Jul;12(1):83-92. Doi: 10.3892/Mmr.2015.3368. Epub 2015 Feb 17. Socs3 Blocks Hif-1?? Expression To Inhibit Proliferation And Angiogenesis Of Human Small Cell Lung Cancer By Downregulating Activation Of ...
3. PubMed ID: 23630144, Wang Gg, Li W, Lu Xh, Zhao X, Xu L. Croat Med J. 2013 Apr;54(2):171-9. Taurine Attenuates Oxidative Stress And Alleviates Cardiac Failure In Type I Diabetic Rats.

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